IAP6 Rec'd PCT/PTO 25 JUN 2007

	TO ANOMITTAL I ETTED T	ATTORNEY'S DOCKET NO.								
	TRANSMITTAL LETTER T	1034136-000031								
	DESIGNATED/ELECTED CONCERNING A SUBMISSI	U.S. APPLICATION No. (If known)								
	CONCERNING A SUBMISSI	10/594,073								
INTER	NATIONAL APPLICATION NO.	PRIORITY DATE CLAIMED								
	PCT/US2005/010214	26 March 2004								
I .	TITLE OF INVENTION									
	OVOLTAIC DEVICE WITH TRIM	IE I ASPHERES								
	APPLICANT(S) FOR DO/EO/US J. Paige PHILLIPS, Daniela M. TOPASNA, Steven A. STEVENSON, Pascal DESCHATELETS and Bryan									
KOEN		INA, Steven A. STEVENSON, Pascal	DESCRIPTELETS and Bryan							
		Designated/Elected Office (DO/EO/US) the foll	owing items and other information:							
1.	This is a FIRST submission of item	ns concerning a submission under 35 U.S	S.C. 371.							
2. 🛛	This is a SECOND or SUBSEQUE	ENT submission of items concerning a su	bmission under 35 U.S.C. 371.							
3. 🗆		n national examination procedures (35 U.								
_	include items (5), (6), (9) and (21)									
4.	The US has been elected (Article	· ·								
5.	A copy of the International Applica	tion as filed (35 U.S.C. 371(c)(2))								
}		ed only if not communicated by the Interr	national Bureau).							
		by the International Bureau.								
	c. is not required, as the ap	plication was filed in the United States Re	eceiving Office (RO/US).							
6.		the International Application as filed (35	U.S.C. 371(c)(2))							
0	a. is attached hereto.									
	b. has been previously subr	mitted under 35 U.S.C. 154(d)(4).								
7.	Amendments to the claims of the I	nternational Application under PCT Article	e 19 (35 U.S.C. 371(c)(3))							
	a. are attached hereto (requ	ired only if not communicated by the Inte	rnational Bureau).							
	b. have been communicated	d by the International Bureau.								
	c. have not been made; how	vever, the time limit for making such ame	ndments has NOT expired.							
	d. have not been made and will not be made.									
8. 🗆	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9. 🛛										
10. 🗆	An English language translation of the appeared of the International Preliminary Examination Deport under									
Items 11 to 20 below concern document(s) or information included:										
11. 🔲										
12. 🗆	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.									
13. 🔲										
14. 🔲	An Application Data Sheet under 37 CFR 1.76.									
15. 🔲	☐ A substitute specification.									
16. 🗌	A power of attorney and/or change of address letter.									
17. 🔲	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.									
18. 🔲										
19. 🔲										
20. 🛛	Other items or information. Notification of Mississ Description and Linday 05 LLO 0 074 to 11 LL to 100									

10/594,073			PCT/US2005/010214			1034136-000031					
The following fees have been submitted:							CALC	ULATIONS	PTO USE ONLY		
	21. Basic National fee (37 CFR 1.492(a)) (1631) \$ 300						31) \$ 300	\$	OLATIONO	1 10 COL CIVET	
22. 🖾							, , , , , , , , , , , , , , , , , , , 	Ψ			
22. 23			•		by ISA/US or the interna	ational pre	eliminar	У			
	examination report prepared by IPEA/US indicates all claims satisfy provisions of							visions of			
	PCT Article 33(1)-(4) (1643) \$ 0 All other situations (1633) \$ 200										
23. 🛛				1 402/h)			(100	3) \$ 200	\$	200.00	
23. 🔼			•	1.492(b))	VUS or the international	nrelimina	rv eyan	nination			
					ndicates all claims satisfy						
	33(1)-((27.000	4 445/0\/	'2\\	:		1640) \$ 0	-		
					 has been paid on the onal Searching Authority 	ınternatio		11) \$ 100			
	Interna	itiona	l Search	Report p	repared by an ISA other		JS ànd	provided			
			•	ously con	nmunicated to the US by	the IB	•	12) \$ 400			
	All other						(163	32) \$ 500	\$	100.00	
			21, 22 A		o and drawings filed in a		100 -		\$	300.00	
					s and drawings filed in p compliance with 37 CFR				ļ		
	compu	ter pr	ogram lis	sting in ar	n electronic medium) (37	CFR 1.49	92(j)).			•	
T-4-I Oh			_		ch additional 50 sheets of each additional 50 or fraction			n thereof.	1		
Total She			Sheets	thereof (round up to a whole number)	KATE			_		
0	-100 =	0	/50 =	0 furnishing	any of the search fee, exam	x \$ 25		ooth or	\$		
decla	ration aft	er the	date of co	mmencen	nent of the national stage (3	7 CFR 1.4	92(h))	oaui oi	\$	130.00	
CLAIMS			NUMBE	R FILED	NUMBER EXTRA	RATE					
Total clai	ms		39	- 20 =	19	x \$ 50 (1	615)		\$		
Independ	lent Clair	ns	3	- 3 =	0	x \$ 200 ((1614)		\$		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$ 360 (1616)						\$					
TOTAL C	OF ABO	/E CA	LCULATI	ONS =					\$	430.00	
	Applicant	claim	s small en	tity status.	See 37 CFR 1.27. Fees a	bove are r	educed l	oy 1/2		215.00	
SUBTOT									\$	215.00	
Processir	ng fee of	\$ 130	(1618) for	r furnishing FR 1.492	the English translation late	r than 30 r					
TOTAL N				<u> </u>	(1)).			+	\$	215.00	
					(37 CFR 1.21(h)). The assignment				-	215.00	
by an appropriate cover sheet (37 CFR 3.28, 3.31).\$ 40 per property + TOTAL FEES ENCLOSED =							+		0		
TOTAL F	CES EN	CLUS	ED =						\$	215.00	
										refunded:	\$
								Amoun	t to be	charged:	\$
a. 🔲 /	A check	in the	e amount	of	to cover the	above fe	es is er	closed			-
ь 🗆 🤚	Please (charg	e my De	osit Acc	ount No. 02-4800 in the a				to cov	er the above	e fees. A
duplicate copy of this sheet is enclosed.											
The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4800. A duplicate copy of this sheet is enclosed. Charge \$ 215.00 to credit card. Form PTO 2038 is etteched. 86/26/2007 tirkE11. 00000142 10594073											
d. 23 Charge <u>\$2.10.00</u> to credit card. Form F10-2036 is attached.											
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a perion to revive (37 CFR 1.187/09 de (b)) must be filed and granted to restore the International Application to pengling status.											
SEND ALL CORRESPONDENCE TO:							1	2			
Customer No 21839 SIGNATURE								_ 			
	P.O. Box 1404 Alexandria, VA 22313-1404										
703 836 (_0 10	. 107			Susan M.	. Dadio				40373
Date: <u>Se</u> j	otember	25. 2	2006			NAME					TRATION NO.

ATTORNEY'S DOCKET NO.

U.S. APPLICATION NO. (If known) INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NO. TRANSMITTAL LETTER TO THE UNITED STATES 1034136-000031 **DESIGNATED/ELECTED OFFICE (DO/EO/US)** U.S. APPLICATION No. (If known) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** 10/594,073 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US2005/010214 25 March 2005 26 March 2004 TITLE OF INVENTION PHOTOVOLTAIC DEVICE WITH TRIMETASPHERES APPLICANT(S) FOR DO/EO/US J. Paige PHILLIPS, Daniela M. TOPASNA, Steven A. STEVENSON, Pascal DESCHATELETS and Bryan KOENE Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). b. □ has been communicated by the International Bureau. c. 🔲 is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. 🔲 is attached hereto. b. 🔲 has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). а. П b. 🗆 have been communicated by the International Bureau. c. 🔲 have not been made; however, the time limit for making such amendments has NOT expired. d. 🔲 have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. 9. 🖾 An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under 10. PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. 🔲 An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is 12. 🔲 included. 13. 🔲 A preliminary amendment. 14. 🔲 An Application Data Sheet under 37 CFR 1.76. 15. 🔲 A substitute specification. 16. 🔲 A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 17. 🔲 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. 🗀 A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 19. 🔲 Other items or information: Notification of Missing Requirements Under 35 U.S.C. 371 in the United States 20.

Designated/Elected Office

U.S. APPLICATION NO. (If known) INTERNATIONAL APPLICATION NO.						,	ATTORNEY'S DOCKET NO.			
	10	/594,	,073		PCT/US20	05/010214		1	034136-00	00031
The following fees have been submitted:						CALC	ULATIONS	PTO USE ONLY		
21. 🔲			nal fee (3			(1631) \$	300	\$		
22. 🛛	Examir	nation	fee (37	CFR 1.49	92(c))					
	examir	ation	report pi 33(1)-(4)	epared b	by ISA/US or the interna by IPEA/US indicates all	ational preliminary claims satisfy provisior (1643) (1633) \$	\$0	e	200.00	
23. 🖾				1 492(h))		(1000) ψ	200	\$	200.00	
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB (1642) \$ 400						icle \$ 0 on 100 ded				
	All other situations (1632) \$ 5				500	\$	100.00]		
TOTAL OF 21, 22 AND 23 =							\$	300.00		
Additional fee for specifications and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$ 250 (1681) for each additional 50 sheets of paper or fraction thereof. Total Sheets Number of each additional 50 or fraction thereof (round up to a whole number) RATE						reof.				
0	-100 =	0	/50 =	0		x \$ 250		\$		
Surch decla	arge of \$ ration aft	6 130 (er the	(1617) for date of co	furnishing mmencen	any of the search fee, exament of the national stage (3	nination fee, or the oath o	r	\$	130.00	
CLAIMS NUMBER FILED		NUMBER EXTRA	RATE							
Total claims 39 - 20 = 19		19	x \$ 50 (1615)		\$					
Independent Claims 3 - 3 = 0 x \$ 200 (1614)			\$							
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$ 360 (1616)							\$			
TOTAL OF ABOVE CALCULATIONS =						\$	430.00			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2								215.00		
SUBTOTAL =							\$	215.00		
Processing fee of \$ 130 (1618) for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						е				
TOTAL NATIONAL FEE =							\$	215.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31).\$ 40 per property +						anied		0		
TOTAL FEES ENCLOSED =							\$	215.00		

earliest claimed priority date (37 CFR 1.492(i)).	+						
TOTAL NATIONAL FEE =		\$ 219	5.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment by an appropriate cover sheet (37 CFR 3.28, 3.31).\$ 40 per property	must be accompanied +		0				
TOTAL FEES ENCLOSED =		\$ 219	5.00				
	Amount	to be refund	ded: \$				
	Amour	t to be charg	jed: \$				
a. A check in the amount of to cover the above	fees is enclosed.						
b. Please charge my Deposit Account No. 02-4800 in the amount of to cover the above fees. duplicate copy of this sheet is enclosed.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4800. A duplicate copy of this sheet is enclosed.							
d.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has no (b)) must be filed and granted to restore the International Applicati	ot been met, a petiti ion to pending state	on to revive us.	(37 CFR 1.137(a) or				
SEND ALL CORRESPONDENCE TO:	Jusan W		10:				
Customer No 21839 SIGN	TURE						
P.O. Box 1404	1						
Alexandria, VA 22313-1404 703 836 6620							
Jusail	M. Dadio		40373				
Date: September 25, 2006 NAME			REGISTRATION NO.				
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D 2 -f 2							



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. SOX 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/594,073

J. Paige Phillips

1034136-000031

INTERNATIONAL APPLICATION NO. PCT/US05/10214

21839 **BUCHANAN, INGERSOLL & ROONEY PC**

POST OFFICE BOX 1404 **ALEXANDRIA, VA 22313-1404** I.A. FILING DATE PRIORITY DATE 03/25/2005 03/26/2004

CONFIRMATION NO. 3347

371 FORMALITIES LETTER

OC000000023497709

Date Mailed: 04/23/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

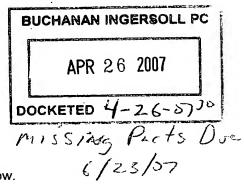
Indication of Small Entity Status

Copy of the International Application filed on 09/25/2006

Copy of the International Search Report filed on 09/25/2006

- Information Disclosure Statements filed on 09/25/2006
- U.S. Basic National Fees filed on 09/25/2006
- Priority Documents filed on 09/25/2006
- Specification filed on 09/25/2006
- Claims filed on 09/25/2006
- Abstracts filed on 09/25/2006
- Drawings filed on 09/25/2006

1034136-00003) SMD



The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$215 for a Small Entity:

- \$65 Surcharge.
 - The application search fee has not been paid. Applicant must submit \$50 to complete the search fee. Note a surcharge will be required if submitted later than commencement of the national stage (37 CFR 1.492(h)) and the basic national fee was not paid before July 1, 2005.
 - The application examination fee has not been paid. Applicant must submit \$100 to complete the examination fee for a small entity in compliance with 37 CFR 1.27. Note a surcharge will be required if submitted later than commencement of the national stage (37 CFR 1.492(h)) and the basic national fee was not paid before July 1, 2005.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

VONDA M WALLACE

Telephone: (703) 308-9140 EXT 225

PART 1 - ATTORNEY/APPLICANT COPY

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	U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
	10/594.073	PCT/US05/10214	1034136-000031

FORM PCT/DO/EO/905 (371 Formalities Notice)